



Bovine Sequence Listing.ST25.txt
SEQUENCE LISTING

<110> PURINA MILLS, LLC

<120> BOVINE LEPTIN PROTEIN, ANTISENSE AND ANTIBODY

<130> LL31.12-0015

<140> US 09/928,522

<141> 2001-08-13

<150> US 08/688,908

<151> 1996-07-31

<160> 8

<170> PatentIn version 3.3

<210> 1

<211> 36

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 1

ggatccggtc tcaggccgtg ccyatccara aagtcc

36

<210> 2

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 2

gaattcagcg ctgcayycag ggcttrasrtc

30

<210> 3

<211> 449

<212> DNA

<213> Bos taurus

<220>

<221> DNA

<222> (6)..(443)

<223> Nucleotide sequence (cDNA) of the coding region of bovine leptin
minus the secretory signal

<400> 3

aggccgtgcc tatccagaaa gtccaggatg acaccaaacc cctcatcaag acaattgtca 60

ccaggatcaa tgacatctca cacacgcagt ccgtctctc caaacagagg gtcactgggt 120

tggacttcat ccctgggctc caccctctcc tgagtttgtc caagatggac cagacattgg 180

cgatctacca acagatctc accagtctgc cttccagaaa tgtgggtcaa atatccaatg 240

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acctggagaa cctccgggac cttctccacc tgctggccgc ctccaagagc tgccccttgc 300
 cgcaggtcag ggccctggag agcttggaga gcttgggtgt cgtcctggaa gcctccctct 360
 actccaccga ggtggtggcc ctgagccggc tgcaggggtc actacaggac atgttgccgc 420
 agctggacct cagccctgaa tgcagcgct 449

<210> 4
 <211> 146
 <212> PRT
 <213> Bos taurus

<220>
 <221> Protein
 <222> (1)..(146)
 <223> Amino acid translation of the coding region of bovine leptin
 minus the secretory signal

<400> 4

Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile Lys Thr
 1 5 10 15
 Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val Ser Ser
 20 25 30
 Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His Pro Leu
 35 40 45
 Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala Ile Tyr Gln Gln Ile
 50 55 60
 Leu Thr Ser Leu Pro Ser Arg Asn Val Val Gln Ile Ser Asn Asp Leu
 65 70 75 80
 Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala Ala Ser Lys Ser Cys
 85 90 95
 Pro Leu Pro Gln Val Arg Ala Leu Glu Ser Leu Glu Ser Leu Gly Val
 100 105 110
 Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser Arg
 115 120 125
 Leu Gln Gly Ser Leu Gln Asp Met Leu Arg Gln Leu Asp Leu Ser Pro
 130 135 140
 Glu Cys
 145

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<210> 5
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> DNA
 <222> (1)..(445)
 <223> Nucleotide sequence of human leptin

<400> 5
 aagctgtgcc catcaaaaaa gtccaagatg acaccaaaac cctcatcaag acaattgtca 60
 ccaggatcaa tgacatttca cacacgcagt cagtctcctc caaacagaaa gtcaccgggt 120
 tggacttcat tcctgggctc caccatcc tgacctatc caagatggac cagacactgg 180
 cagtctacca acagatcctc accagtatgc cttccagaaa cgtgatccaa atatccaacg 240
 acctggagaa cctccgggat cttcttcacg tgctggcctt ctctaagagc tgccacttgc 300
 cctgggccag tggcctggag accttggaca gcctgggggg tgctctggaa gcttcagggt 360
 actccacaga ggtggtggcc ctgagcaggc tgcaggggtc tctgcaggac atgctgtggc 420
 agctggacct cagccctggg tgctg 445

<210> 6
 <211> 445
 <212> DNA
 <213> Murine (Mouse)

<220>
 <221> DNA
 <222> (1)..(445)
 <223> Nucleotide sequence of murine leptin

<400> 6
 aagcagtgcc tatccagaaa gtccaggatg acaccaaaac cctcatcaag accattgtca 60
 ccaggatcaa tgacatttca cacacgcagt cggtatccgc caagcagagg gtcactggct 120
 tggacttcat tcctgggctt caccatcc tgagtttgtc caagatggac cagactctgg 180
 cagtctatca acaggtcctc accagcctgc cttcccaaaa tgtgctgcag atagccaatg 240
 acctggagaa tctccgagac ctctccatc tgctggcctt ctccaagagc tgctccctgc 300
 ctgagaccag tggcctgcag aagccagaga gcctggatgg cgtcctggaa gcctcactct 360
 actccacaga ggtggtggct ttgagcaggc tgcaggggtc tctgcaggac attcttcaac 420
 agttggatgt tagccctgaa tgctg 445

<210> 7
 <211> 167
 <212> PRT
 <213> Homo sapiens

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<220>
 <221> Protein
 <222> (1)..(167)
 <223> Amino acid translation of human leptin

<400> 7

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Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu
1          5          10          15

Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
          20          25          30

Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
          35          40          45

Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro
          50          55          60

Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala
65          70          75          80

Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln
          85          90          95

Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala
          100          105          110

Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu
          115          120          125

Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val
          130          135          140

Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln
145          150          155          160

Leu Asp Leu Ser Pro Gly Cys
          165
    
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<210> 8
 <211> 167
 <212> PRT
 <213> Murine (Mouse)

<220>
 <221> Protein
 <222> (1)..(167)
 <223> Amino acid translation of murine leptin

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<400> 8

Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu
1 5 10 15

Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
20 25 30

Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
35 40 45

Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro
50 55 60

Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala
65 70 75 80

Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln
85 90 95

Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala
100 105 110

Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro
115 120 125

Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val
130 135 140

Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln
145 150 155 160

Leu Asp Val Ser Pro Glu Cys
165